## AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

## Listing of Claims:

- 1. Canceled.
- 2. (Previously Presented) A network element in accordance with claim 24, wherein said input circuit comprises:
- a pointer determining circuit coupled to said switch circuit and configured to provide a pointer identification for each time slot occupied by said concatenated optical signal frames, said output circuit outputting said plurality of concatenated optical signal frames in accordance with said pointer identification.
- 3. (Previously Presented) A network element in accordance with claim 2, further comprising:
- a memory coupled to said pointer determining circuit, said memory containing information identifying said time slots occupied by said concatenated optical signal frames, said pointer determining circuit determining said pointer identification based on said information.

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4. (Previously Presented) A network element in accordance

with claim 3, wherein said memory comprises:

a first submemory having N storage locations, selected

storage locations in said first submemory being configured to

store identification information associated with a first one of

said time slots occupied by said concatenated optical signal

frames in said sequential placement of said first plurality of N

time slots; and

a second submemory having N storage locations, selected

storage locations in said second submemory being configured to

store identification information associated with subsequent ones

of said occupied time slots following said first one in said

sequential placement of said first plurality of N time slots.

5. (Previously Presented) A network element in accordance

with claim 23, wherein said switch circuit further comprises:

a first switch stage coupled to said input circuit; and

a second switch stage coupled to said output circuit.

6. (Currently Amended) A network element in accordance with

claim 2, further comprising:

an additional pointer determining circuit coupled to said

output circuit, and configured to determine said pointer

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identification within each time slot occupied by said

concatenated optical signal frames, said output circuit

outputting said concatenated optical signal frames in accordance

with said pointer identification within each of said occupied

time slots; and

an additional a memory coupled to said output circuit, said

additional memory being configured to store said information

identifying said time slots occupied by said concatenated

optical signal frames, said additional pointer determining

circuit detecting said pointer location based on said

information.

7. (Currently Amended) A network element in accordance with

claim 6, wherein said additional memory comprises:

a first submemory having N storage locations, selected

storage locations in said first submemory being configured to

store identification information associated with a first one of

said time slots occupied by said concatenated optical signal

fames in said sequential placement of said first plurality of N

time slots; and

a second submemory having N storage locations, selected

storage locations in said second memory being configured to

store identification information associated with subsequent ones

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of said occupied time slots following said first one in said

sequential placement of said first plurality of N time slots.

8. (Previously Presented) A network element in accordance with

claim 6, wherein said output circuit further comprises a

plurality of buffer circuits, each of said buffer circuits being

configured to store a respective one of said concatenated

optical signal frames, said buffer circuits outputting said

concatenated optical signal frames in a synchronized manner in

response to said pointer identification.

9. (Original) A network element in accordance with claim

8, wherein each of said plurality of buffer circuits comprises a

first-in-first-out (FIFO) buffer.

10. (Previously Presented) A network element in accordance

with claim 23, wherein said concatenated optical signal frames

constitute at least one OC-3c.

11. (Previously Presented) A network element in accordance

with claim 23, wherein said plurality of concatenated optical

signal frames constitute at least one OC-12c.

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12. (Previously Presented) A network element in accordance

with claim 23 wherein at least one of said first and second

pluralities of N optical signal frames are transmitted at an OC-

48 rate.

13. Canceled.

14. (Previously Presented) A method in accordance with claim

28, further comprising the step identifying said occupied time

slots in said first plurality of N time slots.

15. (Previously Presented) A method in accordance with claim

14, further comprising the step of storing information

corresponding to said identified time slots in a memory.

16. (Previously Presented) A method in accordance with claim

15, wherein said determining step is performed based on

information corresponding to said identified time slots.

17. (Previously Presented) A method in claim 28 wherein said

outputting step further comprises the step of synchronizing said

concatenated optical signal frames based on said pointer of each

of said occupied time slots.

18. (Currently Amended) A method in accordance with claim—13

27, wherein said concatenated optical signal frames constitutes

constitute at least one OC-3c.

19. (Currently Amended) A method in accordance with claim—13

27, wherein said concatenated optical signal frames constitutes

constitute at least one OC-12c.

20. (Previously Presented) A method in accordance with claim

28, further comprising the steps of:

storing first identification information associated with a

first one of said occupied time slots in said sequential

placement of said first plurality of N time slots in a first

memory; and

storing, in a second memory, second identification

information associated with selected ones of said occupied time

slots following said first one of said occupied time slots in

said sequential placement of said first plurality of N time

slots.

21. (Previously Presented) A method in accordance with claim

20, wherein said determining step is based on said first and

second identification information.

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22. Canceled.

23. (Previously Presented) A network element comprising:

an input circuit configured to receive a first plurality of N optical signal frames (N being an integer ≥ 0) conforming to a synchronous optical network standard, said first plurality of optical signal frames being grouped into a first plurality of N time slots, at least two of said first plurality of optical signal frames being concatenated to carry a payload;

a switch circuit coupled to said input circuit, said switch circuit being configured to receive data corresponding to said payload; and

an output circuit coupled to said switch circuit, said output circuit being configured to output a second plurality of N optical signal frames conforming to said synchronous optical network standard in response to said first plurality of optical signal frames, said second plurality of time slots being grouped into a second plurality of N time slots,

wherein a sequential placement of time slots occupied by said concatenated optical signal frames within at least one of said first and second pluralities of N time slots does not conform to said synchronous optical network standard.

24. (Previously Presented) A network element in accordance with

claim 23, wherein

the sequential placement of time slots occupied by said

concatenated signal frames within said first plurality of N

times slots does not conform to said synchronous optical network

standard, and

said output circuit is configured to transmit said data in

conformance with said synchronous optical network protocol.

25. (Previously Presented) A network element according to claim

23, wherein said synchronous optical network standard is

SONET/SDH.

26. (Previously Presented) A network including one or more of

said network elements in accordance with claim 23.

27. (Currently Amended) A switching method comprising:

supplying a first plurality of N optical signal frames (N

being an integer ≥ 0) conforming to a synchronous optical network

(synchronous optical network)—standard, said first plurality of

optical signal frames being grouped into a first plurality of N

time slots, at least two of said first plurality of optical

signal frames being concatenated to carry a payload;

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determining a pointer for each time slot occupied by said

concatenated optical signal frames; and

outputting said concatenated optical signal frames in

accordance with said pointers for said occupied time slots, said

concatenated optical signal frames being output in a second

plurality of N optical signal frames, said second plurality of N

optical signal frames being grouped in a second plurality of N

time slots,

wherein a sequential placement of the time slots occupied

by said concatenated optical signal frames within at least one

of said plurality first and second pluralities of N time slots

does not conform to said synchronous optical network standard.

28. (Previously Presented) A method in accordance with claim

27, wherein the sequential placement of time slots occupied by

said concatenated signal frames within said first plurality of N

times slots does not conform to said synchronous optical network

standard.

29. (Previously Presented) A method in accordance with claim 27

wherein said synchronous optical network standard is SONET/SDH.

30. (Currently Amended) A network element comprising:

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a switch configured to receive a first plurality of N optical signal frames (N being an integer ≥ 0) conforming to a synchronous optical network (synchronous optical network) standard, said first plurality of optical signal frames being grouped into a plurality of N time slots, at least two of said first plurality of optical signal frames being concatenated to carry a payload, wherein a sequential placement of the time slots occupied by said concatenated optical signal frames within said plurality of N time slots does not conform to said synchronous optical network standard, said switch being further configured to output a second plurality of N optical signal frames in response to said first plurality of optical signal frames in order to transmit said data in conformance with said synchronous optical network protocol.